

Table S1. Primer sequences used for the PCR amplification of *pax2* CNEs

CNE ID	Gene	Forward primer	Reverse primer
CRCNE00000055old	<i>pax2.1</i>	CACTCACAGATTCATCAAAGCC	AGAGAGTGAGTGACAAAGCAGG
CRCNE00000055new	<i>pax2.1</i>	AATGAAATTGAGACATGGTAG	AGAGAGTGAGTGACAAAGCAGG
CRCNE00000123old	<i>pax2.2</i>	GAATTAATGGAGACACGGTGGC	CCATTCTCTCCGCATGAGGG
CRCNE00000123new	<i>pax2.2</i>	GAATTAATGGAGACACGGTGGC	AAAGGAGAGGAAAAGCACGGG
CRCNE00000056	<i>pax2.1</i>	CTTTGTCACTCTCTCTCCC	GATGTGACATAACAACCACGCC
CRCNE00000125	<i>pax2.2</i>	GCATGACAGGCAGATCCC	CCTTGATTAGCAGCAGCCTTC
CRCNE00000059	<i>pax2.1</i>	CTCCCTGTGCTAATCCCTCATC	CAACCCAGCTCAGGGATGAAG
CRCNE00000127	<i>pax2.2</i>	AGGACAGAAAACCTAGCCTCAG	GCAGGCAATGATTAATGTCCCTC
CRCNE00000060old	<i>pax2.1</i>	CACAAGTGGTGAGTCTGAGC	GTGATTTGTTGCGGCGATGC
CRCNE00000060new	<i>pax2.1</i>	GAAGGCAATCTGTTCAATTAAG	GTGATTTGTTGCGGCGATGC
CRCNE00000128	<i>pax2.2</i>	CTTGCTCAATCTAGCTTGCG	TGCTCACTGATTTGTACCAC
CRCNE00000063-4	<i>pax2.1</i>	CCTACAATCCATCTTGTGGAG	CCGTTTGGAGCCTGTTCCC
CRCNE00000133	<i>pax2.2</i>	CCATCCTCAACTCAGATAGTCC	CGTTTGGAGCTTGTACTCCCAG
CRCNE00000065	<i>pax2.1</i>	GCCTACAAACAGAGCAGGACC	GGTGGATCACTCAACCGTGAC
CRCNE00000134	<i>pax2.2</i>	TAATATCTAGCCGATGCCTG	GGAACGGCTCGCTTGTGC
CRCNE00000066	<i>pax2.1</i>	GTTCTGCCTCTGCATATTC	TACCTGCAACACTAAAAGATCC
CRCNE00000136	<i>pax2.2</i>	AGTGAAGTGAATAAGCCACAAC	TTTGCTTCTGTTCTGTGACC
CRCNE00000068	<i>pax2.1</i>	CTAAGGTGCCCCTGTGAGG	TCGCTTTATGCCAGACCTTC
CRCNE00000140	<i>pax2.2</i>	CTTCCGGTCCACGACCTCC	CTAATGGCTATCTTGAAGTGC
CRCNE00000071	<i>pax2.1</i>	CATCCTGCCCTCAATCTGG	CTCAGCCAAATGGCAGGCTTC
CRCNE00000145-7	<i>pax2.2</i>	GGGTAGGTTATTCAGTGAGCATC	CTCATAAATCTCTCGACGCCG
CRCNE00000078	<i>pax2.1</i>	GTGCATGACTGTCCTCTC	GCATGAGACACTGTGGAGG
CRCNE00000151	<i>pax2.2</i>	ACGCCTCAGAGGCAGTGG	CAAACGGAGCGACAGTGGGAC
CRCNE00000080	<i>pax2.1</i>	GGGGAAGATCAATGGAAAACAC	CTTGGGTCGCTTCAACG
CRCNE00000154	<i>pax2.2</i>	CGAGGATCAATGGAAAACAGTTG	GCTGCATGACTGAACCTCC
CRCNE00000081	<i>pax2.1</i>	GTAGTTCTGTGACACAGGACG	GAGGGAGCTTCTGGTACAATATG
CRCNE00000155	<i>pax2.2</i>	ACAGAGGGGAGAGGTGGG	TCTCACGCTCTGCTCC
CRCNE00000082	<i>pax2.1</i>	CCCCAAAGGCTCATCTTTCCC	CTCGCATAGAGATGGATGACTTG
CRCNE00000156	<i>pax2.2</i>	CTCAGACCTCCTCATTTGGAC	CCCCTTTTGCTTATATGGATGAC
CRCNE00000089	<i>pax2.1</i>	CGCTCGTCCACACTGAATG	GTAGCACAAAGAAACTGGG
CRCNE00000164	<i>pax2.2</i>	CTAATGCTGCGGCACAGGC	GCTGTTGTCTTTGCTACTCAGG
CRCNE00000090	<i>pax2.1</i>	GCGAGTTGGGTTATCCTCTG	CAACAGTGGATGAGGACTTAGC
CRCNE00000165	<i>pax2.2</i>	GGTCGGGCTCATCTCTG	CCTCTGCTGCTGATTC
CRCNE00000091-2	<i>pax2.1</i>	CTTGCTCAAAGCCTGTAATCC	CCTCCGCTCTTTGTGATTCG
CRCNE00000166-7	<i>pax2.2</i>	TACATACCACAGCCCACTTGC	ACCTTCTCGATGCTCTTTGTG
CRCNE00000095	<i>pax2.1</i>	TTCTGCCATAAGCAAACCTG	GGGTAACAGAGGACGCC
CRCNE00000171	<i>pax2.2</i>	CAGCGATAAGCCTATCAGGG	CCAATCTCTGCCAATGAGCG
CRCNE00000099	<i>pax2.1</i>	GAACAGATGAGGCAACGAGG	GTTTGCCAAAGAGGGGCTAC
CRCNE00000174	<i>pax2.2</i>	GCACCAGTCACTCCCAAC	CGAGCTACTTTGCTCTTTGC
CRCNE00000100	<i>pax2.1</i>	GAGCGTGGTGAAGTTAGTCTG	CATGCCTTCGCTATGACAGGG
CRCNE00000175	<i>pax2.2</i>	TACCAGGGGAGTGCAGTGG	CATGGCTTCTCTATGACAGG
CRCNE00000735	<i>pax8</i>	AGCGGCAGAGAGGGTAAAAG	AGCTCAGCTGAAAGCCACAG

CONDOR database (<http://condor.nimr.mrc.ac.uk/>). Identification numbers of CNEs are given in the first column, followed by the associated Fugu *pax2* co-orthologue. Where CNEs were re-assayed, sequences used in the original and repeat assays are referred to as 'old' and 'new', respectively. Additional primer sequences are given for the *pax8* element tested using the Tol-2 assay.